

* SWBAT define and measure motion and speed

Sep 6-2:31 PM

Welcome!!!

SECA Physics
Thursday 2 October 2014

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Centering...

* Pick up:

- slip of paper (for later)
- Motion of a runner sheet



Video: Tracking Speed

Opening Activity:

Where in your everyday life do you deal with speed and how it changes?

DRIVING, WALKING, SPORTS

Sep 7-7:04 AM

Catchy Physics Phrases...

Speed is

Change in distance over
change in time

$$\text{SPEED} = \frac{\Delta d}{\Delta t}$$

Velocity is

speed and direction

TMBG - speed and velocity

<http://www.youtube.com/watch?v=DRb5PSxJerM>

Oct 4-7:27 AM

	0m	4m	8m	12m	16m	20m
CHANGE:		4m	4m			

Runner Measurements : TIME (sec)

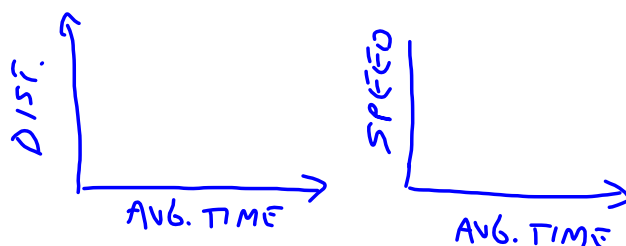
	4m	8m	12m	16m	20m
Trial 1	1.18	1.75	2.25	3.12	3.56
Trial 2	.81	1.59	2.25	2.69	3.34
Trial 3	.95	1.47	2.25	2.72	3.34

AVG: 0.98 1.60

CHANGE: .98 .62

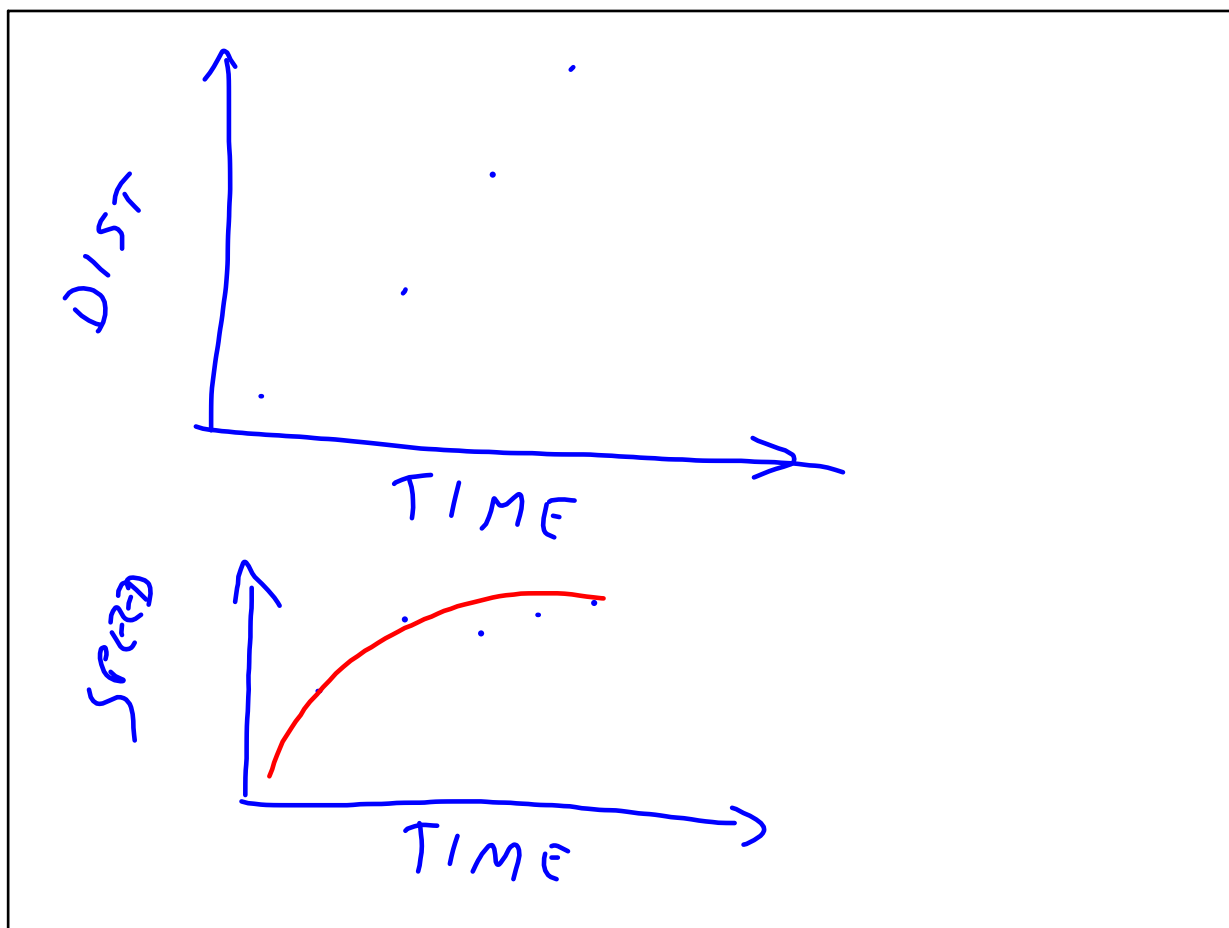
Now use what we've found to fill in the worksheet.

- Get someone to check over what you've got **before** you start graphing
- When you're done: see what other people noticed about the graphs



3rd hour

Oct 5-7:33 AM



Oct 2-10:13 AM

0m	4m	8m	12m	16m	20m
CHANGE:	4m	4m			

Runner Measurements : TIME

	4m	8m	12m	16m	20m
Trial 1	1.00	1.84	2.50	3.00	3:28
Trial 2	.97	1.79	2.28	2.81	3.40
Trial 3	1.00	1.56	2.22	2.54	3.28

0 AVG. 0.99 1.73

CHANGE: 0.99 .74

Now use what we've found to fill in the worksheet.

- Get someone to check over what you've got **before** you start graphing
- When you're done: see what other people noticed about the graphs

4th hour

Oct 5-7:33 AM

0m	4m	8m	12m	16m	20m
CHANGE:	4m	4m	...		

Runner Measurements : TIME

	4m	8m	12m	16m	20m
Trial 1	1.25	2.25	3.09	3.85	
Trial 2	1.22	2.04	2.91	3.66	
Trial 3	1.28	2.13	2.94		

AVG.

1.25 2.14

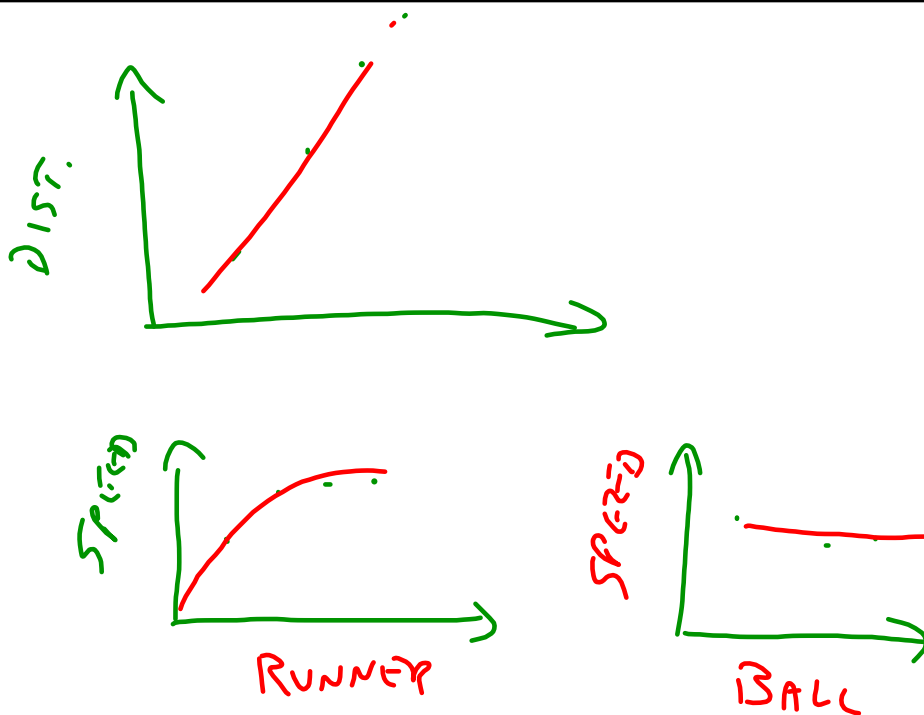
CHANGE:

Now use what we've found to fill in the worksheet.

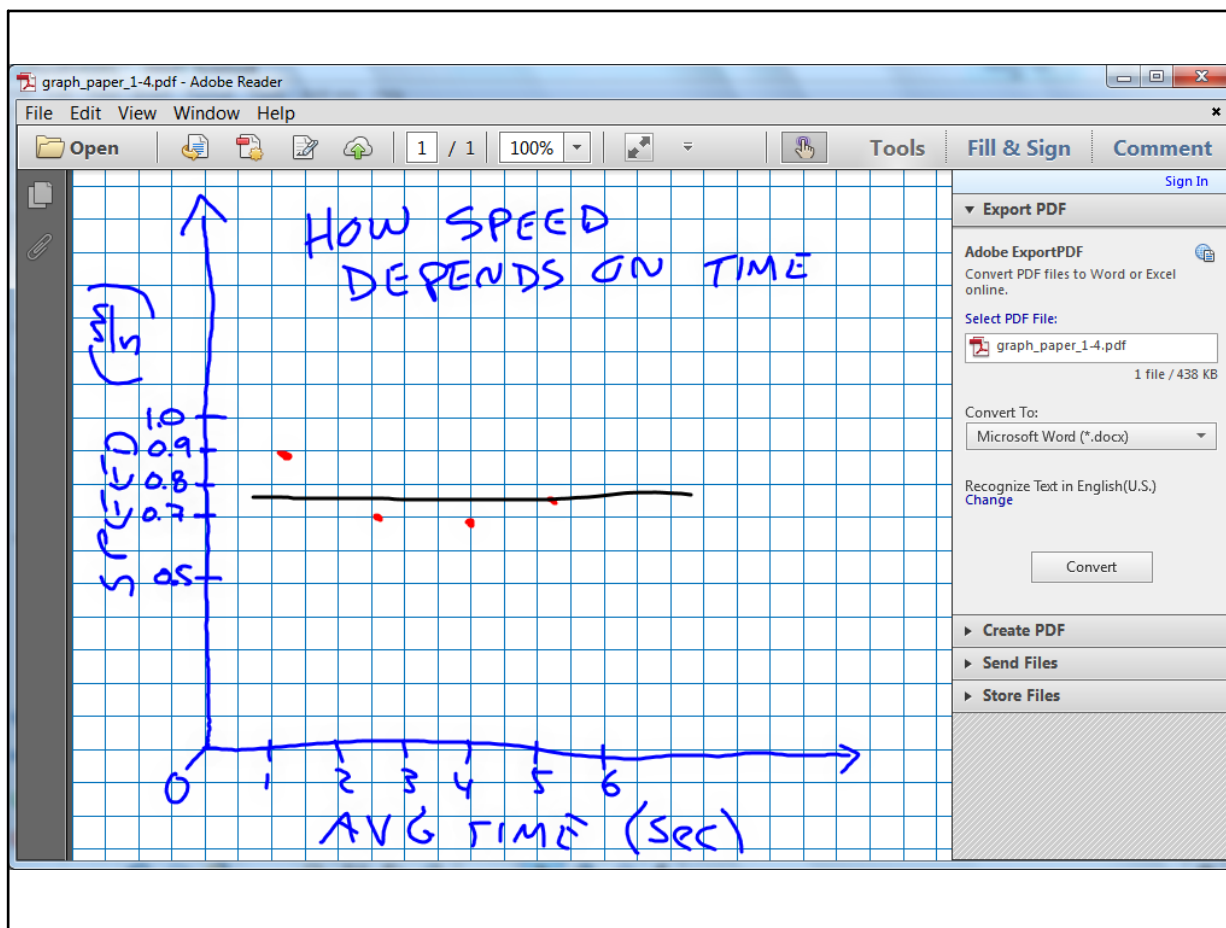
- Get someone to check over what you've got **before** you start graphing
- When you're done: see what other people noticed about the graphs

5th hour

Oct 5-7:33 AM



Oct 2-12:46 PM



Oct 1-10:16 AM

Daily 3 Questions

- * Every day except test/project days
- * 3 Questions on the topics of the day
- * Main source of daily points
- * I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

You can't get your points if you don't have your **NAME!!!**

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

1. How DID WE FIND CHANGE IN TIME?

A. DIVIDE

☒ B. SUBTRACT

C. AVERAGE

2. WHAT IS ALONG THE BOTTOM OF YOUR GRAPHS?
AVG. TIME

3. TRUE: THE RUNNER KEPT A
CONSTANT SPEED.

Oct 2-12:49 PM

1. Overall, the runner's speed generally
 - A. decreased
 - B. stayed about the same
 - C. increased

2. Velocity is speed and _____.

3. The bottom of your graph is what?
 - A. Change in Distance
 - B. Speed
 - C. Avg. Time

Sep 14-7:28 AM